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PPPPPPPP  LL      IIIIII  PPPPPPPP  UU      UU  TTTTTTTTTT  BBBB88888  UU      UU  FFFFFFFFFF
PPPPPPPP  LL      IIIIII  PPPPPPPP  UU      UU  TTTTTTTTTT  BBBB88888  UU      UU  FFFFFFFFFF
PP      PP  LL      II      PP      PP  TT      TT      BB      BB  UU      UU  FF
PP      PP  LL      II      PP      PP  TT      TT      BB      BB  UU      UU  FF
PP      PP  LL      II      PP      PP  TT      TT      BB      BB  UU      UU  FF
PPPPPPPP  LL      II      PPPPPPPP  UU      UU  TT      TT      BBBB88888  UU      UU  FFFFFFFF
PPPPPPPP  LL      II      PPPPPPPP  UU      UU  TT      TT      BBBB88888  UU      UU  FFFFFFFF
PP      LL      II      PP      UU      UU  TT      TT      BB      BB  UU      UU  FF
PP      LL      II      PP      UU      UU  TT      TT      BB      BB  UU      UU  FF
PP      LL      II      PP      UU      UU  TT      TT      BB      BB  UU      UU  FF
PP      LL      II      PP      UU      UU  TT      TT      BB      BB  UU      UU  FF
PP      LL      II      PP      UU      UU  TT      TT      BB      BB  UU      UU  FF
PP      LLLLLLLLLL  IIIIII  PP      UUUUUUUUUU  TT      BBBB88888  UUUUUUUUUU  FF
PP      LLLLLLLLLL  IIIIII  PP      UUUUUUUUUU  TT      BBBB88888  UUUUUUUUUU  FF
                                     ....
                                     ....
                                     ....
                                     ....

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
                                     SS
                                     SS
                                     SS
                                     SS
```



```

0000 1      .title  pli$putbuffer
0000 2      .ident  /1-005/
0000 3
0000 4
0000 5
0000 6
0000 7
0000 8
0000 9
0000 10     *****
0000 11     *
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0000 29     *
0000 30     *****
0000 31     :
0000 32     :++
0000 33     : facility:
0000 34     :
0000 35     :     VAX/VMS PL1 runtime library
0000 36     :
0000 37     : abstract:
0000 38     :
0000 39     :     This module contains the pl1 runtime routines for stream output
0000 40     :     buffer mapipulation.
0000 41     :
0000 42     : author: c. spitz
0000 43     :
0000 44     : modified:
0000 45     :
0000 46     :     1-002      Chip Nylander      03-Aug-1982
0000 47     :
0000 48     :     Signal line-counter overflow and page-couter overflow instead of
0000 49     :     dying in the RTL with an integer overflow.
0000 50     :
0000 51     :     1-003      Chip Nylander      07-Sep-1982
0000 52     :
0000 53     :     Clear the top half of R2 at PLI$$PUTSKIP_R2, since some callers
0000 54     :     do not:  fix a couple of transcription errors.
0000 55     :
0000 56     :
0000 57     :     1-004      Bill Matthews      29-September-1982

```



```
0000 58 :  
0000 59 :  
0000 60 : Invoke macros $defdat and rtshare instead of $defopr and share.  
0000 61 : 1-005 Chip Nylander 19-December-1983  
0000 62 :  
0000 63 : For PRINT files, implement PAGE by putting a formfeed in the  
0000 64 : PRN post-processing field rather than sticking a ^L in the  
0000 65 : data record. Non-PRINT files continue to work as always.  
0000 66 :  
0000 67 :--  
0000 68 :  
0000 69 :  
0000 70 : external definitions  
0000 71 :  
0000 72 : $deffcb ;define file control block  
0000 73 : $rabdef ;define rms rab offsets  
0000 74 : $defstr ;define stream block offsets  
0000 75 : $defpllrtcons ;define runtime constants  
0000 76 : $devdef ;define device bits in fab  
0000 77 : $fabdef ;define fab offsets  
0000 78 :  
0000 79 :  
0000 80 : local data  
0000 81 :  
0000 82 :  
0000 83 : rtshare ;sharable  
0000 84 :  
0000 85 :++  
0000 86 : pli$$putnlis_r6  
0000 87 :  
0000 88 : functional description:  
0000 89 :  
0000 90 : This routine puts elements into the buffer of a pl1 stream output  
0000 91 : file. It is called by the pli$putl**** routines to copy the  
0000 92 : contents of the stream block's field to the buffer. If the string  
0000 93 : in the field will not fit in the remainder of the line, and the  
0000 94 : line is not empty, a skip is performed. Whether the skip was performed  
0000 95 : or not, the string in field is then copied to the buffer. If the line  
0000 96 : is filled, rms is called to perform a $put.  
0000 97 :  
0000 98 : inputs:  
0000 99 : r11 - address of the stream block  
0000 100 : ap - address of the file control block  
0000 101 : str_b_field(r11) - character string to output (in char var format)  
0000 102 : fcb_l_buf_pt - address of next available char in buf  
0000 103 : fcb_l_buf_end - address of the end of the buffer + 1  
0000 104 : outputs:  
0000 105 :  
0000 106 : side effects:  
0000 107 :  
0000 108 :--  
0000 109 : .enabl lsb  
0000 110 pli$$putnlis_r6::  
0000 111 bbc #atr_v_print,fcb_l_attr(ap),10$ ;if print file  
52 2D 0C AC 07 E1 0005 112 bicw3 #7,fcb_w_column(ap),r2 ;round column down to last tab stop  
2E AC 07 AB 000A 113 cmpw r2,fcb_w_column(ap) ;already at a tab stop?  
2E AC 52 B1 000E 114 beql 10$ ;if eql, yes
```



```

      53      52      08      A0      0010      115      addw      #8,r2      ;round up to next tab boundary
      53      52      2E      AC      A3      0013      116      subw3     fcb_w_column(ap),r2,r3 ;get number of blanks required
      53      52      2E      AC      B0      0018      117      movw      r2,fcb_w_column(ap) ;store column
      53      52      2A      AC      B1      001C      118      5$:      cmpw      r2,fcb_w_linesize(ap) ;past end of line?
      53      52      0D      14      0020      119      bgtr      8$      ;if gtr, yes, do a skip
      1C BC      53      20      6E      00      2C      0022      120      movc5     #0,(sp),#^x20,r3,afcb_l_buf_pt(ap) ;insert blanks
      53      52      1C      AC      D0      0029      121      movl      r3,fcb_l_buf_pt(ap) ;update buffer pointer
      53      52      03      11      002D      122      brb      10$      ;cont
      53      52      00BC      30      002F      123      8$:      bsbw      pli$$putskp1_r2 ;do a skip
      53      52      56      18      AB      3C      0032      124      10$:      movzw1     str_b_field(r11),r6 ;get length of field
      53      52      51      1A      AB      9E      0036      125      12$:      movab      str_b_field+2(r11),r1 ;get addr of start of source string
      53      52      52      56      01      C1      003A      126      15$:      addl3     #1,r6,r2 ;get length to put (inc trailing blank)
      53      52      003E      127      pli$$put_ctrl:
      53      52      2A      AC      2E      AC      A3      003E      128      20$:      subw3     fcb_w_column(ap),fcb_w_linesize(ap),r4 ;get length left in line
      53      52      56      54      B1      0044      129      cmpw      r4,r6 ;enough room in line?
      53      52      22      14      0047      130      bgtr      40$      ;if gtr, yes
      53      52      0A      13      0049      131      beql      30$      ;if eql, not enuf for blank
      53      52      2E      AC      B5      004B      132      tstw      fcb_w_column(ap) ;are we at column 0?
      53      52      05      13      004E      133      beql      30$      ;if eql, yes, don't skip
      53      52      009B      30      0050      134      bsbw      pli$$putskp1_r2 ;do a skip
      53      52      E1      11      0053      135      brb      12$      ;try again with full line
      53      52      56      54      A2      0055      136      30$:      subw      r4,r6 ;get length left after line is filled
      53      52      1C BC      61      54      28      0058      137      movc3     r4,(r1),afcb_l_buf_pt(ap) ;fill line
      53      52      1C      AC      53      D0      005D      138      movl      r3,fcb_l_buf_pt(ap) ;update buffer position
      53      52      51      DD      0061      139      pushl     r1 ;save position in field
      53      52      0088      30      0063      140      bsbw      pli$$putskp1_r2 ;put the line
      53      52      51      8ED0      0066      141      popl      r1 ;restore position in field
      53      52      CF      11      0069      142      brb      15$      ;go again
      53      52      2E      AC      52      A0      006B      143      40$:      addw      r2,fcb_w_column(ap) ;update column
      53      52      61      56      2C      006F      144      movc5     r6,(r1),#^x20,r2,afcb_l_buf_pt(ap) ;copy field to buf, add blank
      53      52      1C      AC      53      D0      0076      145      movl      r3,fcb_l_buf_pt(ap) ;update buffer pointer
      53      52      05      007A      146      rsb      ;return
      53      52      007B      147      .dsabl     lsb
      53      52      007B      148
      53      52      007B      149
      53      52      007B      150      ;++
      53      52      007B      151      pli$$putnedi - put the next edit field in a stream file
      53      52      007B      152
      53      52      007B      153      ; this routine copies the vcha format string in the field into the buffer
      53      52      007B      154      ; of a stream output file. if there is not enough room in the buffer, as
      53      52      007B      155      ; much as will fit is copied, the buffer is written to the file and the
      53      52      007B      156      ; remainder of the field is copied to the buffer.
      53      52      007B      157
      53      52      007B      158      ;inputs:
      53      52      007B      159      ; str_b_field(r11) - vcha string to output
      53      52      007B      160      ;outputs:
      53      52      007B      161      ; fcb_w_buf_pt(ap) is updated
      53      52      007B      162      ; fcb_w_col(ap) is updated
      53      52      007B      163      ; fcb_w_line(ap) may be updated
      53      52      007B      164      ;side effects:
      53      52      007B      165      ; r0-r6 are destroyed
      53      52      007B      166      ;--
      53      52      007B      167      pli$$putnedi r6::
      53      52      51      18      AB      9E      007B      168      movab      str_b_field(r11),r1 ;get addr of field
      53      52      56      81      B0      007F      169      movw      (r1)+,r6 ;get len of field
      53      52      2A      AC      2E      AC      A3      0082      170      10$:      subw3     fcb_w_column(ap),fcb_w_linesize(ap),r2 ;get len left in buffer
      53      52      52      56      B1      0088      171      cmpw      r6,r2 ;field len <= buf len?
```



```
1C BC 61 56 28 008B 172      bgtr      20$      ;if gtr, then no
1C AC 53 28 008D 173      movc3    r6,(r1),@fcb_l_buf_pt(ap) ;copy field to buf
2E AC 56 A0 0092 174      movl      r3,fcb_l_buf_pt(ap) ;update buf pointer
1C BC 56 52 A2 009A 176      addw      r6,fcb_w_column(ap) ;update column
1C AC 61 52 28 009B 177      rsb      ;return
1C AC 53 52 28 009E 178      subw      r2,r6 ;get len left in field after copy
1C AC 53 52 28 009E 178      movc3    r2,(r1),@fcb_l_buf_pt(ap) ;copy beginning of field to buf
1C AC 53 51 DD 00A3 179      pushl     r1 ;save pointer in field
1C AC 53 51 DD 00A5 180      movl      r3,fcb_l_buf_pt(ap) ;update buffer pointer
0042 30 00A9 181      bsbw      pli$$putskip_r2 ;write buffer to file
51 8ED0 00AC 182      popl      r1 ;restore pointer in field
D1 11 00AF 183      brb      10$ ;go again
00B1 184
00B1 185      ;++
00B1 186      pli$$put_rec - put a record to a stream file
00B1 187
00B1 188      ; this routine determines the length of the record that is in the buffer,
00B1 189      ; and issues a $put. upon successful completion, the column is reset to 0,
00B1 190      ; and the buffer is reset to the beginning of the buffer.
00B1 191
00B1 192      ; calling sequence:
00B1 193      ; jsb      pli$$put_rec
00B1 194
00B1 195      ; inputs:
00B1 196      ; fcb_l_buf(ap) - address of start of buffer
00B1 197      ; fcb_l_buf_pt(ap) - address of last char to output + 1
00B1 198      ; fcb_b_rab(ap) - rab
00B1 199      ; outputs:
00B1 200      ; fcb_l_buf_pt(ap) - set to fcb_l_buf(ap)
00B1 201      ; fcb_w_column(ap) - set to 0
00B1 202      ; side effects:
00B1 203      ; r0 is destroyed
00B1 204      ;--
00B1 205
00B1 206      pli$$put_rec::
50 0A 0C AC 17 E1 00B1 207      fbc      #atr_v_string,fcb_l_attr(ap),10$ ;if string
50 00000000'8F D0 00B6 208      movl      #pli$_endstring,r0 ;set end string error
017A 31 00BD 209      brw      fail ;and fail
50 1C AC 14 AC C3 00C0 210      10$:      subl3    fcb_l_buf(ap),fcb_l_buf_pt(ap),r0 ;get size of buf
0084 CC 50 B0 00C6 211      movw      r0,<fcb_b_rab+rab$w_rsz>(ap) ;set size in rab
00CB 212      $put      fcb_b_rab(ap) ;put the record
00D5 213      clrl      fcb_l_prn(ap) ;clr prn area
00D8 214      blbs      r0,20$ ;if lbs, cont
50 00000000'8F D0 00DB 215      movl      #pli$_rmsr,r0 ;set rms rab error
0155 31 00E2 216      brw      fail ;and fail
1C AC 2E AC B4 00E5 217      20$:      clrw      fcb_w_column(ap) ;set column to 0
1C AC 14 AC D0 00E8 218      movl      fcb_l_buf(ap),fcb_l_buf_pt(ap) ;reset buffer pointer
05 00ED 219      rsb      ;return
00EE 220
00EE 221      ;++
00EE 222      ; pli$$putskip_r2 - process a skip option or format for an output stream file
00EE 223      ; pli$$putskip_r2 - process one skip for an output stream file
00EE 224
00EE 225      ; this routine processes the skips for an output stream file. it differentiates
00EE 226      ; between print files and non-print output files. for print files, the skips are
00EE 227      ; accomplished by setting the number to skip in the prefix byte of the fixed
00EE 228      ; control area of the printer format file. for non-print files, the skips are
```



```
00EE 229 ; represented by new records.  if the number to skip is 0, the file must be a
00EE 230 ; print file, and a carriage return is put into the prefix byte. (this is used
00EE 231 ; for overprinting) for print files, skip will only take you to the end of the
00EE 232 ; page if the number to skip is more than the number of lines left on the page.
00EE 233 ; for the first skip processed, the contents of the buffer are printed before
00EE 234 ; the buffer is cleared.
00EE 235
00EE 236 inputs:
00EE 237 ; r2 - number of skips to perform
00EE 238 ; r11 - address of the stream block
00EE 239 ; ap - address of the file control block
00EE 240 outputs:
00EE 241 ; fcb_w_column is set to 0
00EE 242 ; fcb_w_line is incremented
00EE 243 ; fcb_w_page may be incremented (and the endpage condition raised)
00EE 244
00EE 245 side effects:
00EE 246 ; r0-r2 are destroyed
00EE 247 ;--
00EE 248
00EE 249 pli$$putskip1_r2::
00EE 250 ; movl #1,r2 ;set to skip 1
00F1 251 pli$$putskip_r2::
00F1 252 ; movzwl r2,r2 ;clear top half of r2
00F4 253 ; bbc #atr_v_print,fcb_l_attr(ap),5$ ;if not print, cont
00F9 254 ; cmpl fcb_l_buf(ap),fcb_l_buf_pt(ap) ;anything in buffer?
00FE 255 ; bneq 5$ ;if neg, cont
0100 256 ; tstl fcb_l_prn(ap) ;anything in prn?
0103 257 ; beql 6$ ;if eql, no, don't do the put
0105 258 5$: bsbw pli$$put_rec ;print the last record
0108 259 6$: clrw fcb_w_column(ap) ;reset column
010B 260 ; tstl r2 ;skip <= 0?
010D 261 ; bgtr 20$ ;if gtr, then no
010F 262 ; bbc #atr_v_print,fcb_l_attr(ap),10$ ;if not print, cont
0114 263 ; movzwl #pli$c_cr,fcb_l_prn(ap) ;set cr in prn
011A 264 ; rsb ;return
011B 265 10$: movl #1,r2 ;default to skip 1
011E 266 20$: bbc #atr_v_print,fcb_l_attr(ap),30$ ;if not print, cont
0123 267 ; movzwl fcb_w_line(ap),r1 ;get current line number
0127 268 ; addl r2,r1 ;generate new line number
012A 269 ; cmpl r1,#32767 ;about to overflow?
0131 270 ; bleq 21$ ;no - branch
0133 271 ; movl #pli$_linovrflo,r0 ;signal line overflow
013A 272 ; brw fail ;
013D 273 21$: cmpw r1,fcb_w_pagesize(ap) ;over a page?
0141 274 ; bleq 22$ ;if leq, then no
0143 275 ; cmpw fcb_w_line(ap),fcb_w_pagesize(ap) ;already past pagesize?
0148 276 ; bleq 25$ ;if leq, then no
014A 277 22$: movzbl r2,fcb_l_prn(ap) ;set number of skips in prn
014E 278 ; addw r2,fcb_w_line(ap) ;update line number
0152 279 ; rsb ;return
0153 280 25$: subw3 fcb_w_line(ap),fcb_w_pagesize(ap),r0 ;get number of lines left
0159 281 ; incw r0 ;on page + 1
015B 282 ; movzbl r0,fcb_l_prn(ap) ;set number off skips in prn
015F 283 ; addw r0,fcb_w_line(ap) ;update line number
0163 284 ; pushl ap ;push fcb addr
0165 285 ; pushl #0 ;set no secondary error code
```



```
00000000'8F DD 0167 286      pushl    #pli$_endpage      ;set endpage cond
OC AC 08 CA 016D 287      bicl     #atr_m_recur, fcb_l_attr(ap) ;clr recursion flag
00000000'GF 03 FB 0171 288      calls   #3,g*pli$_io_error    ;signal the condition
OC AC 08 C8 0178 289      bisl     #atr_m_recur, fcb_l_attr(ap) ;set recursion flag
FF31 30 017C 290      rsb         ;return
FA 52 F5 0180 291 28$:      bsbw     pli$_put_rec      ;do a skip
05 0183 292 30$:      sobgtr    r2,28$      ;go again as required
0184 293      rsb         ;return
0184 294
0184 295      ;+
0184 296      ;pli$_putline_r6
0184 297      ; this routine process the line option or format for output stream files
0184 298
0184 299      ;inputs:
0184 300      ;      r1 - line number
0184 301      ;      r11 - addr of stream block
0184 302      ;      ap - addr of fcb
0184 303      ;outputs:
0184 304      ;      none
0184 305      ;--
0184 306      pli$_putline_r6::
51 30 AC B1 0184 307      cmpw     fcb_w_line(ap),r1      ;already at the right line?
08 19 0188 308      blss      10$      ;if lss, then no
14 14 018A 309      bgtr      20$      ;if gtr, then no
2E AC B5 018C 310      tstw     fcb_w_column(ap)      ;at col. 0?
OF 12 018F 311      bneq      20$      ;if neq, then no
05 0191 312      rsb         ;at right place, return [case 2.1]
0192 313 10$:      ;req line > cur line
2C AC 51 B1 0192 314      cmpw     r1,fcb_w_pagesize(ap) ;line requested <= pagesize?
08 14 0196 315      bgtr      20$      ;if gtr, then no
52 51 30 AC A3 0198 316      subw3    fcb_w_line(ap),r1,r2      ;get number of lines to skip [case 2.2]
FF51 31 019D 317      brw         pli$_putskip_r2      ;go to the right line
01A0 318 20$:      ;req line = cur line but col ^= 0 or cur line > req line
52 2C AC 30 AC A3 01A0 319      subw3    fcb_w_line(ap),fcb_w_pagesize(ap),r2 ;get number of lines left
05 19 01A6 320      blss      30$      ;if lss, then we're already over a page
52 B6 01A8 321      incw      r2      ;get lines left on page + 1 [case 2.3]
FF44 31 01AA 322      brw         pli$_putskip_r2      ;skip them
01AD 323 30$:      ;brw         pli$_putpage_r6
01AD 324
01AD 325
01AD 326      pli$_putpage_r6::
7FFF 8F 32 AC B1 01AD 327      cmpw     fcb_w_page(ap),#32767 ;about to overflow page counter
0A 19 01B3 328      blss      10$      ;no
50 00000000'8F D0 01B5 329      movl     #pli$_pagovrflo,r0 ;yes
007B 31 01BC 330      brw         fail
07 0C AC 07 DD 01BF 331 10$:      pushl     r5      ;save r5 in case bit src pending
35 AC 8C 8F E1 01C1 332      bbc         #atr_v_print,fcb_l_attr(ap),20$ ;branch if not print file
56 01 D0 01C6 333      movb     #140,1+fcb_l_prn(ap) ;put formfeed in field
52 56 D0 01CB 334      brb         30$      ;rejoin common code
51 1A AB 9E 01CD 335 20$:      movl     #1,r6      ;set size to 1
61 0C D0 01D0 336      movl     r6,r2      ;set total size
FE61 30 01D3 337      movab     <str_b_field+2>(r11),r1 ;set addr of field
FED1 30 01D7 338      movb     #^x0C,(r1) ;put formfeed in field
34 AC 01 D0 01DA 339      bsbw     pli$_put_ctrl ;put control char in buf
32 AC B6 01DD 340 30$:      bsbw     pli$_put_rec ;output record
01E0 341      movl     #1,fcb_l_prn(ap) ;set prn to one for first skip
01E4 342      incw     fcb_w_page(ap) ;update page
```


30	AC	01	B0	01E7	343	movw	#1, fcb_w_line(ap)	;reset line
		55	8ED0	01EB	344	popl	r5	;restore r5
			05	01EE	345	rsb		;return
				01EF	346			
				01EF	347	:pli\$put_end_r6		
				01EF	348	: inputs:		
				01EF	349	: r11 - address of stream block		
				01EF	350	: ap - address of file control block		
				01EF	351	: outputs:		
				01EF	352	: none		
				01EF	353	: side effects:		
				01EF	354	: r0-r6 are destroyed		
				01EF	355			
				01EF	356	pli\$put_end_r6::		
	0C	AC	08	C8	01EF	357	bisl	#atr_m_recur, fcb_l_attr(ap) ;set recursion flag
21	0C	AC	17	E0	01F3	358	bbs	#atr_v_string, fcb_l_attr(ap), 20\$;if put string, cont
0F	00E6	CC	02	E1	01F8	359	bbc	#dev\$v_trm, <fcb_b_fab+fab\$l_dev>(ap), 10\$;if not term, cont
0A	0C	AC	07	E1	01FE	360	bbc	#atr_v_print, fcb_l_attr(ap), 10\$;if not print, cont
				0203	361	assume	<fcb_w_column+2>=eq fcb_w_line	
	2E	AC	DD	0203	362	pushl	fcb_w_column(ap)	;save line and column
	FEA8		30	0206	363	bsbw	pli\$\$put_rec	;finish this line
	2E	AC	8ED0	0209	364	popl	fcb_w_column(ap)	;restore them
50	00000000	'8F	D0	020D	365	10\$: movl	#ss\$_continue, r0	;set continue (needed if called from
				0214	366			;default handler)
	0C	AC	08	CA	0214	367	bicl	#atr_m_recur, fcb_l_attr(ap) ;clr recursion flag
				04	0218	368	ret	;return
	0E	0C	AC	18	E1	0219	369	20\$: bbc
	50	14	AC	D0	021E	370	movl	#atr_v_vcha, fcb_l_attr(ap), 30\$;if vcha,
51	1C	AC	50	C3	0222	371	subl3	fcb_l_buf(ap), r0 ;get addr of buf
	FE	A0	51	B0	0227	372	movw	r0, fcb_l_buf_pt(ap), r1 ;get length of string
				04	022B	373	ret	;set length
				04	022B	373	ret	;return
1C	BC	50	18	AC	1C	AC	C3	30\$: subl3
	50	20	6E	00	2C	0232	375	fcb_l_buf_pt(ap), fcb_l_buf_end(ap), r0 ;get length left in string
				04	0239	376	movc5	#0, (sp), #x20, r0, @fcb_l_buf_pt(ap) ;blank out end of string
				023A	377	ret		;return
				023A	378			
				023A	379			
	08	AC	50	D0	023A	380	fail: movl	r0, fcb_l_error(ap) ;set error in fcb
			5C	DD	023E	381	pushl	ap ;set fcb addr
			50	DD	0240	382	pushl	r0 ;set error code
	00000000	'8F	DD	0242	383	pushl	#pli\$error	;set error condition
00000000	'GF	03	FB	0248	384	calls	#3, g^pli\$io_error	;signal the condition
			04	024F	385	ret		;return
				0250	386			
				0250	387	.end		

PLISPUTBUFFER
Symbol table

H 11

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6-SEP-1984 11:39:16 [PLIRTL.SRC]PLIPUTBUF.MAR;1 (1)

\$\$TMP1	= 00000001		
\$\$TMP2	= 000000AC		
ATR_M_RECUR	= 00000008		
ATR_V_PRINT	= 00000007		
ATR_V_STRING	= 00000017		
ATR_V_VCHA	= 00000018		
DEV\$V_TRM	= 00000002		
FAB\$L_DEV	= 00000040		
FAIL	0000023A	R	02
FCB_B_ENVIR	000001C2		
FCB_B_ESA	0000012E		
FCB_B_EXTRA	0000003D		
FCB_B_FAB	000000A6		
FCB_B_IDENT	00000040		
FCB_B_IDENT_NAM	00000042		
FCB_B_NAM	000000F6		
FCB_B_NUMKCBS	0000003C		
FCB_B_RAB	00000062		
FCB_C_LEN	000001C2		
FCB_C_STRLIN	00000034		
FCB_L_ATTR	0000000C		
FCB_L_BUF	00000014		
FCB_L_BUF_END	00000018		
FCB_L_BUF_PT	0000001C		
FCB_L_CNDADDR	000001B2		
FCB_L_CONDIT	000001AE		
FCB_L_DTTR	00000010		
FCB_L_ERROR	00000008		
FCB_L_KCB	00000038		
FCB_L_NEXT	00000000		
FCB_L_PREVIOUS	00000004		
FCB_L_PRN	00000034		
FCB_Q_RFA	00000020		
FCB_W_COLUMN	0000002E		
FCB_W_IDENT_LEN	00000040		
FCB_W_LINE	00000030		
FCB_W_LINESIZE	0000002A		
FCB_W_PAGE	00000032		
FCB_W_PAGESIZE	0000002C		
FCB_W_REVISION	00000028		
PLISS\$PUTLINE_R6	00000184	RG	02
PLISS\$PUTNEDI_R6	0000007B	RG	02
PLISS\$PUTNLIS_R6	00000000	RG	02
PLISS\$PUTPAGE_R6	000001AD	RG	02
PLISS\$PUTSKIP_R2	000000F1	RG	02
PLISS\$PUTSKP1_R2	000000EE	RG	02
PLISS\$PUT_CONTRL	0000003E	R	02
PLISS\$PUT_REC	000000B1	RG	02
PLISC CR	= 0000008D		
PLISID ERROR	*****	X	02
PLISPUT_END_R6	000001EF	RG	02
PLIS_ENDPAGE	*****	X	02
PLIS_ENDSTRING	*****	X	02
PLIS_ERROR	*****	X	02
PLIS_LINOVRFLO	*****	X	02
PLIS_PAGOVRFLO	*****	X	02
PLIS_RMSR	*****	X	02

RAB\$W_RSZ	= 00000022		
SIZ...	= 00000001		
SS\$ CONTINUE	*****	X	02
STR_B_FIELD	00000018		
STR_C_LEN	000000C8		
STR_L_FLD_END	00000014		
STR_L_FLD_PT	00000010		
STR_L_FP	00000004		
STR_L_FS	0000000C		
STR_L_PARENT	00000008		
STR_L_SP	00000000		
STR_L_STACK	000000C4		
STR_L_STACK_END	00000408		
SYS\$POT	*****	GX	02

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$AB\$\$	00000C08 (3080.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
_PLI\$CODE	00000250 (592.)	02 (2.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	15	00:00:00.08	00:00:00.31
Command processing	77	00:00:00.55	00:00:02.09
Pass 1	186	00:00:06.46	00:00:12.05
Symbol table sort	0	00:00:00.62	00:00:01.14
Pass 2	75	00:00:01.42	00:00:03.03
Symbol table output	9	00:00:00.07	00:00:00.07
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	364	00:00:09.23	00:00:18.72

The working set limit was 1050 pages.
34970 bytes (69 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 543 non-local and 30 local symbols.
387 source lines were read in Pass 1, producing 11 object records in Pass 2.
19 pages of virtual memory were used to define 17 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[PLIRTL.OBJ]PLIRTMAC.MLB;1	4
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	10
TOTALS (all libraries)	14

616 GETS were required to define 14 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=TRACEBACK/LIS=LISS\$:PLIPUTBUF/OBJ=OBJ\$:PLIPUTBUF MSRC\$:PLIPUTBUF/UPDATE=(ENH\$:PLIPUTBUF)+LIB\$:PLIRTM

0308 AH-BT13A-SE
VAX/VMS V4.0

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PLIFORMAT
LIS

PLIGETBUF
LIS

PLMSGTXT
LIS

PLIGETDI
LIS

PLIHEEP
LIS

PLIPUTFIL
LIS

PLIRMSBIS
LIS

PLIRECOPT
LIS

PLIOPEN
LIS

PLIREAD
LIS

PLIPROTEC
LIS

PLIREWRT
LIS

PLIGETLIS
LIS

PLIPUTDI
LIS

PLIPKDIU
LIS

PLIPUTLIS
LIS

PLMSGPTR
LIS

PLIPKDIU
LIS

PLIPUTBUF
LIS

PLIGETFIL
LIS